



Measurement and Monitoring Technologies for the 21st Century

BACKGROUND

In recent years, there have been significant technological advances in the areas of chemical constituent identification and quantification, geophysical analysis, and information management. These advances could dramatically improve capabilities to characterize sites, monitor remedial activities, and provide long-term monitoring for closed sites. While more tools are becoming available, little has been done to integrate these new tools into ongoing site investigation and cleanup. In response, the U.S. EPA Office of Solid Waste and Emergency Response (OSWER) is undertaking an initiative coordinated by the Technology Innovation Office (TIO) to advance new systems for monitoring hazardous waste sites.



GOAL

Through 21M², OSWER will identify and deploy promising measurement and monitoring technologies in response to waste management and site cleanup program needs. The initiative will match existing and emerging technologies with OSWER program and client needs through partnerships to research and evaluate new equipment and processes in the field.

MONITORING TECHNOLOGIES FOR MINING WASTE SITES

The identification of innovative monitoring technologies for mining waste sites is one of the ten primary focus areas of the 21M² Program. The 21M² website serves as a virtual information clearinghouse for professionals interested in emergent monitoring technologies and is regularly updated to ensure that details on cutting-edge mining waste monitoring tools and techniques are readily available to scientists, investigators, and other interested parties.

The website includes abstracts for a number of recently published scientific articles on topics ranging from *in situ* mineral characterization to remote mineral mapping using AVIRIS data. The 21M² Program facilitates the exchange of knowledge and ideas and welcomes suggestions or contributions from members of the scientific community.

CONTACT

For more information, or, if you would like to provide input on technology needs, please contact:

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Information is available on-line through the Hazardous Waste Clean-Up Information (CLU-IN)
Internet site at: <http://clu-in.org/programs/21m2>